NC/PMC/PD/MW-13/2019-20/DG2-C1

Date: 01-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**256 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.94 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/DG2-PCC1

Date: 01-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	62.45	0 -20	30- 70
10mm	29.70	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.65	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.10	60-95	75-100	85-100	
01.18	61.75	30-70	55-90	75-100	
600. mic	42.20	15-34	35-59	60-79	
300.mic	20.45	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

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NC/PMC/PD/MW-13/2019-20/DG2-C2 Date: 09-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**175 min**	Shall not be less than 30 min
2	Final setting time	**288min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.69 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.84 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.47 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/DG2-S1

Date: 09-04-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10, 12, 16, 20 & 25 mm **TMT Steel.**
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.394**	0.363	**0.622**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**536.0**	500.0	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**22.10**	12.00	**21.80**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**619.0**	545.0	**624.0**	565.0

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NC/PMC/PD/MW-13/2019-20/DG2-CB1 Date: 22-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	22-04-19	07	22500	440	19.56	**19.26**
	002	‘’	“	‘’	“	425	18.89	
	003	‘’	“	‘’	“	435	19.33	

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NC/PMC/PD/MW-13/2019-20/DG2-CB4 Date: 30-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-04-19	30-04-19	07	22500	430	19.11	**19.56**
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	440	19.56	

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NC/PMC/PD/MW-13/2019-20/DG2-CB9

Date: 09-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-05-19	09-05-19	07	22500	440	19.56	**19.19**
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	430	19.11	

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NC/PMC/PD/MW-13/2019-20/DG2-CB10A

Date: 31-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-05-19	31-05-19	28	22500	600	26.67	**27.04**
	002	"	"	"	"	615	27.33	
	003	"	"	"	"	610	27.11	

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NC/PMC/PD/MW-13/2019-20/DG2-CB11A

Date: 01-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-05-19	01-06-19	28	22500	610	27.11	**27.19**
	002	"	"	"	"	625	27.78	
	003	"	"	"	"	600	26.67	

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